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27 May 1963

MEMORANDUM FOR: Assistant for Plans and Development
THROUGH: Acting Chief, Development Branch, F&DS
SUBJECT: Trip Report

25X1A 1. The undersigned, together with [redacted] of CIA/FID visited [redacted] New York on May 23, 1963, for the purpose of inspecting the Precision Enlarger which is being fabricated for the P.S.D., N.P.I.C. and to discuss some of the engineering details and design objectives for the Step and Repeat High Resolution Contact Printer. [redacted] interest in these two items is their application and utilization at the [redacted] installation.

25X1A 2. The enlarger is approximately 80% complete and is presently scheduled for complete assembly and in plant testing on 13 and 14 June 1963 with delivery to NPIC by 21 June 1963. Two optical flats were coated with the "semi-fluid" plastic by the [redacted] to be incorporated into this instrument. The plan is to use only one of these coated flats as the upper pressure plate in the negative gate and examine the image for evidence of Newton's rings. If the rings persist, the second coated flat will be used as the lower plate. If this procedure is necessary, there will be some difficulties in accurately controlling the degree or amount of compression of the plastic in order to position the emulsion plane in the plane of focus. Also there will be some difficulty in transporting the negative materials through the gate without causing some abrasion to the rather delicate plastic surfaces. It is requested that the undersigned, as contract monitor, be allowed to spend at least two days at [redacted] during this final testing phase.

25X1A 3. Two light sources will be provided with the enlarger. One of these is a high pressure, high intensity [redacted] mercury vapor type, and the other is a tungsten source intended for use with color materials. Space below the lens is provided for the insertion of color correction filters as well as neutral density filters. The easel is a compartmented vacuum system with special tensioning mounts to the main frame to compensate in part for distortions in the lens. Focusing will be automatic by means of a